PM AAVS Program Brief

For

2005 Combat Vehicles Conference

Agenda

- AAV7A1 Overview
  - System Description & History
  - Vehicle Distribution
  - RAM/RS Program
- AAV7A1 In GWOT
- AAV7A1 Future

System Description

- The AAV7A1 is an armored assault amphibious full-tracked landing vehicle.
- Three variants in the AAV FOV:
  - AAVP7A1 – Personnel
  - AAVC7A1 – Command
  - AAVR7A1 - Recovery
- Primary Means of Armored Protected Mobility to the Ground Combat Element.
- AAV Design Meets a Mission Profile for 20% Operation in Water and 80% on Land.

- Mission: *To maneuver the surface assault elements of the landing force and their equipment from assault shipping during amphibious operations to inland objectives and to conduct mechanized operations and related combat support in subsequent operations ashore."*

AAV HISTORY

1972 - 1975 LVT7 Fielded

1983 - 1986 LVT7A1 Service Life Extension Program (SLEP)

1987 Redesignated AAV7A1 to better reflect mission

1987 - 1999 Product Improvement Program (PIP) - Upgrade Lethality, Survivability and Communications

1999 – 2007 AAV7A1 Reliability, Availability and Maintainability/Rebuild to Standard (RAM/RS) Program

AAV7A1 RAM/RS Program

Objectives

- Address top cost drivers associated with supporting aging fleet of AAV7A1’s.
- Increase readiness of the AAV fleet and return performance characteristics to those required by the Operational Requirements Document.
- Increase the reliability and maintainability by replacing the engine and suspension with more adequately matched Bradley Fighting Vehicle derivative components, improving the transmission and rebuilding the remainder of the vehicle.
- Maintain the combat utility of the AAV until replaced by the Expeditionary Fighting Vehicle (EFV).

AAV7A1 RAM/RS Program

BACKROUND

1997 CMC approved as ACAT III Program
1998 MS III approved
- Approved Procurement Quantity of 680
- $ 363 million over 4 years
1999 IOC achieved
2003 FOC planned (Original)
2007 FOC planned (Revised)

HIGHLIGHTS

- RAM/RS production extended following OIF
  -1072 vehicles (AAO of 1057 plus OIF losses)
- $652M through FY06
- 791 vehicles have been fielded to date

- OPFOR readiness increased from 83% to 94%

AAV7A1 in GWOT

- As many as 600+ AAVs have been committed to GWOT.
- Average monthly usage for last 12 months is 32 hours and 371 miles.
  - Estimate 80 AAVs will meet IROAN criteria (600 hrs) by Feb 06.
- Vehicle flexibility and versatility enabled contribution to various operations from intense urban combat to convoy escort to assorted recovery ops.

GWOT Lessons Learned

- Reaffirmed the success and versatility of the mechanized-infantry team across the spectrum of operations.

- All Vehicles Should Be Equipped with Enhanced Applique` Armor Kit (EAAK).
- Thermal sight capability needed as replacement for Gen III Image Intensifier System.
- Further emphasized the obsolete nature of the AAVC7A1 Comm Suite.

AAV7A1 Future

- Remain in USMC inventory in steadily decreasing numbers until 2020-2021.
  - Depot maintenance rotation (IROAN) to maintain operationally ready condition
- Interest in survivability enhancements for near-term application in support of GWOT
- POM-08 focus on adding Thermal Sight capability and upgrading the AAVC7A1.
- Apply available product improvements to the current configuration to maintain platform viability until replaced.
- Study the possibilities for a future significant upgrade
  - Survivability
  - Lethality
  - Mobility
  - Communications / Interoperability

Questions?